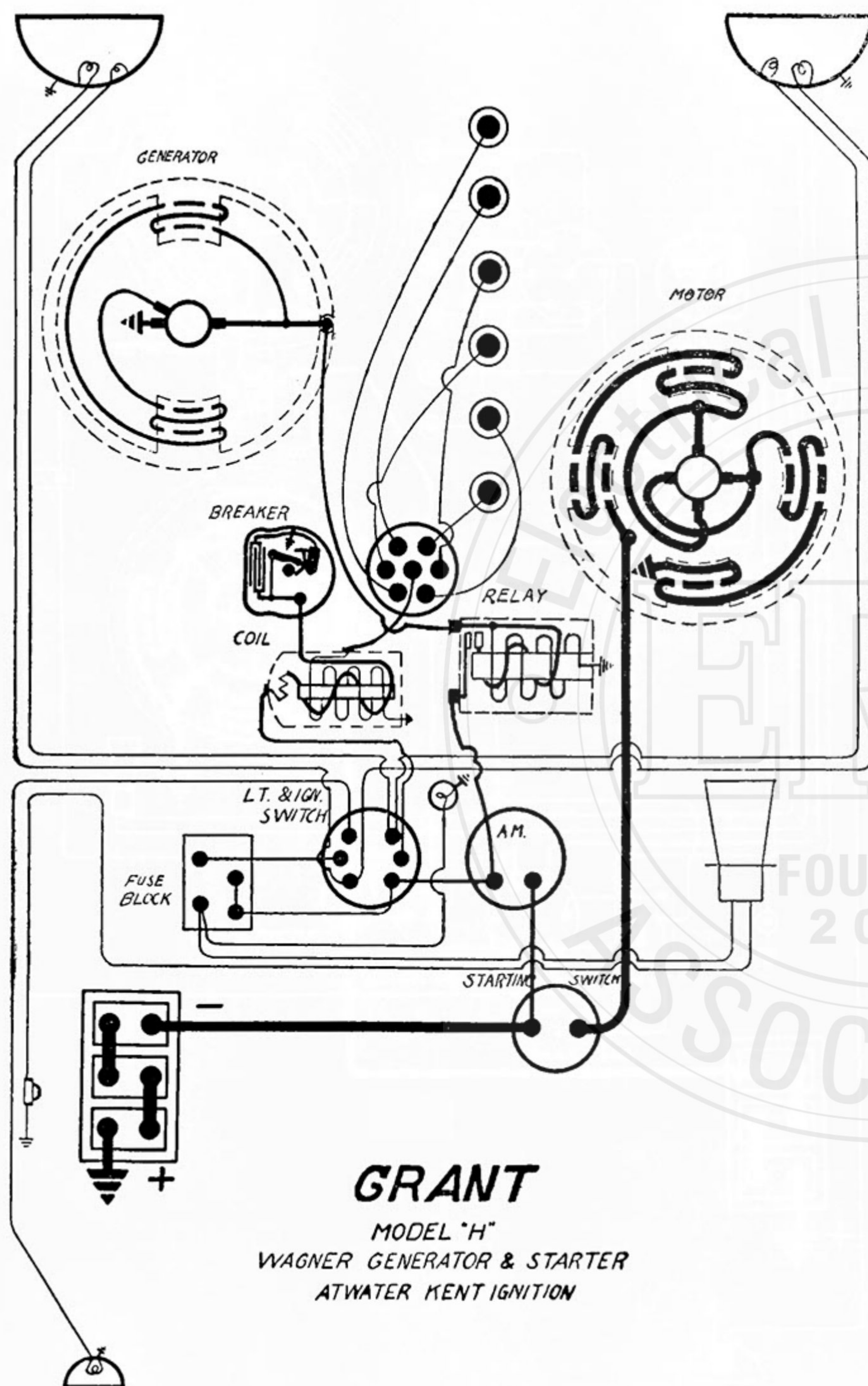




GRANT

MODEL H (1920) (SERIAL NOS. UNDER 2030) WAGNER GENERATING, STARTING AND LIGHTING SYSTEM ATWATER KENT IGNITION

BATTERY.—Prest-O-Lite, 6 volt, 105 ampere-hour. The positive (+) terminal is grounded.

IGNITION.—Type CC. Breaker contacts separate .006 inch. When the condition of the contacts affects the ignition, remove and resurface with fine emery cloth or against the flat side of an emery wheel.

OILING.—Put 4 or 5 drops of light engine oil in the breaker unit oiler every two weeks. Put a small amount of vaseline on the cam, applying with a toothpick. If the car is driven more than 500 miles in two weeks, the oiling must be done every 500 miles.

TIMING.—Breaker contacts begin to separate when piston entering power stroke is on top dead center, spark control and breaker assembly in the fully retarded position.

FIRING ORDER.—The firing order is 1, 5, 3, 6, 2, 4.

SPARK PLUG GAPS.—Spark plug gaps are .025 to .028 inch.

STARTER.—E.M.-298, 36-T. Starter is connected to the engine through a Bendix drive. Starter cranks the engine at 115 R.P.M., current 160 amperes. Running freely, starter armature revolves at 8000 R.P.M., current 60-90 amperes. Lock torque is 11.5 pound-feet, current 475 amperes.

OILING.—Put 5 or 6 drops of light engine oil in each of the starter oilers every month.

GENERATOR.—E.M.-303, 45-W. Generator current regulation is by third brush system. Maximum current output is 16 amperes, reached at 1500 R.P.M. of the armature or 20-24 miles per hour.

OILING.—Put 5 or 6 drops of light engine oil in each of the generator oilers every two weeks. If the car is driven more than 500 miles in two weeks, the oiling must be done every 500 miles.

RELAY.—Relay closes at 8-10 miles per hour or 585-730 R.P.M. of the armature, and opens at 6-8 miles per hour or 437-585 R.P.M. of the armature. Charging current is 2 amperes at closing and the discharge current 0-4 amperes at the opening of relay contacts. Relay contacts separate .035 to .065 inch. Air gap between relay armature (moving member) and coil core is .025 inch, contacts closed. Clean relay contacts by drawing unglazed paper between them. If badly burned or pitted, resurface with well worn No. 00 sandpaper. Remove all grit. Adjust before again putting into service.

LAMPS.—Head lamps are 6-8 volt, 15 cp. Dimmer lamps are 6-8 volt, 4 cp. Dash and tail lamps are 6-8 volt, 2 cp.

FUSES.—Fuse is 15 ampere.